

6

FGDC
Metadata Working Group

NSDI Stakeholder

Upcoming Metadata Training

HI Geographic Info Coordinating Council / NOAA Pacific Services Center
April 11 & 12: 4 hour Intro to Metadata Workshop, Honolulu

HI Geographic Info Coordinating Council / NOAA Pacific Services Center
April 13-15: 3 day Metadata Train the Trainer Workshop, Honolulu

Contact:
Jacil Mize, Jacqueline.Mize@noaa.gov
Kathy Martinolich, Kathy.Martinolich@noaa.gov
Phillip Herndon, Phillip.Herndon@noaa.gov

March 12, 2011 slide 4 of 21

6: NSDI Stakeholder Metadata Training

- Kathy Martinolich (NCDDC) presented information about Intro and Train the Trainer Metadata training being provided by NOAA (NCDDC and NOS) and sponsored by the HI GIS Council and NOAA Pacific Data Center.

7

FGDC
Metadata Working Group

ISO/NAP Activities and Status

- ISO 19115 – 5 Year Review Underway

Now called:
**ISO 19115-1
Metadata -
Fundamentals**

- ISO 19115:2003 Metadata
- ISO 19119:2005 Services and extensions for service metadata model (Part)

data quality lineage →

- ISO 19157 Data Quality (New)

March 12, 2011 slide 7 of 21

7: ISO / NAP Status

Dave Danko (Esri/INCITS L-1) provided a status update on ISO 19115 and NAP metadata standards

- renamed to ISO 19115-1 Metadata – Fundamentals
- merges 19115 vers. 2003 and 19119: 2005 – metadata for services
- removes most Data Quality content to new standard (ISO 19157) except DQ-lineage elements will remain.

8

FGDC
Metadata Working Group

Other changes

- Fully backward compatible
 - No new mandatory
 - <<Deprecated>> elements remain until next revision
 - All new elements stereotyped as <<new>>
- Feature catalog included (physically or by link)
- Many new elements added (online linkage in Citation, Reference system type code attribute added to reference system identifier)
- Responsible party restructured to enable reuse for different roles

March 12, 2011 slide 8 of 21

8: Backward compatible to 2003, therefore

- no new mandatory elements can be introduced
- removed/moved elements stereotyped (tagged) as <<deprecated>>
- new elements stereotyped as <<new>>

8: Other ISO 19115-1 changes

- Feature catalog (Entity/Attributes) fully incorporated as detailed description or link to external description (feature catalog record).
- New elements include Online Linkage for Citation
- Responsible party restructured to allow multiple Role Codes (originator, publishers, etc.) for same contact

9

© 2010 Open Geospatial Consortium

ISO 19115-1 review participation

Committee Draft released: 2011-01-24
Comments due to ISO TC 211: 2011-04-21
Comments due to INCITS-L1: 2011-04-01

FGDC – Comments due: 2011-03-25
Draft standard available: INCITS-L1 FGDC.rep
Comment form: INCITS-L1 FGDC.rep
Adjudicated WD comments: INCITS-L1 FGDC.rep

OGC - Comments due OGC: 2011-03-31
Posted OGC Pending Documents: 11-022
Ted Habermann collecting comments use comment form:
http://portal.opengeospatial.org/index.php?m=project_s&a=view&project_id=52&tab=2

March 12, 2011 slide 9 of 21

9: Review schedule for ISO 19115-1

- FDGC Comments due 3.25
- OGC Comments due 3.31

10: Revision schedule for 19115-1

- Draft International Standard (DIS) 2011-11
- Final Draft (FDIS) 2012-11
- International Standard (DIS) 2013-05

10

FGDC
Metadata Working Group

ISO Revision schedules:

- ISO 19115-1 Metadata - Fundamentals
 - Editing committee meeting in Delft: 2011-05-23-27
 - DIS 2011-11
 - FDIS 2012-11
 - IS 2013-05
- ISO 19157 Data Quality
 - CD 2010-7
 - DIS 2011-06
 - FDIS 2012-06
 - IS 2013-01

March 12, 2011 slide 10 of 21

FGDC
Metadata Working Group

11

NAP ISO 19115 and 19110

- NAP ISO 19115 Metadata
 - Once ISO 19115-1 revision has reached DIS work will start to update the document
- NAP ISO 19110 Feature Catalog
 - Work is on hold until work on next version of NAP 19115 is started

March 12, 2011 slide 11 of 21

FGDC
Metadata Working Group

12

ISO/NAP

NOAA/MO Schematron Updates

- The schematron validates for NAP constraints beyond ISO 19139 (xml)
- NOAA NCDDC and MO Dept. of Administration are collaborating to:
 - improve schema workflow
 - improve the error messages that are being returned

March 12, 2011 slide 12 of 21

FGDC
Metadata Working Group

13

ISO/NAP

Training Materials

NOAA CDDC has developed materials to support transition from CSDGM to ISO 19115

- core curriculum
- lesson plans
- presentation modules
- exercises and handouts
- training evaluations
- workbooks (for education and use in conjunction with the formal standard)

Contact Jaci Mize for access or information
Jacqueline.Mize@noaa.gov

March 12, 2011 slide 13 of 21

11: North American Profile (NAP) status

- On hold until ISO 19115-1 at DIS stage
- Will incorporate all 19115-1 structural and content changes including Feature Catalog

12: NAP schematron Updates

presented by Jaci Mize (NOAA NCDDC)

- Schematrons incorporate NAP requirements and best practices that go beyond 19115
- Requires 19139 (xml of 19115) validation first then NAP schematron processing
- Collaboration between NCDDC and State of MO

13: NOAA NCDDC ISO/NAP Training Materials

presented by Jaci Mize (NOAA NCDDC)

- has coordinated with FGDC, NBII and other NOAA units to develop suite of materials
- contact Jaci Mize to request access to the materials online repository

Discussion:

- Need a new model for learning
Ted Habermann (NOAA NGDC) suggested that the materials developed build upon the outdated CSDGM Workbook approach (static material, linear curriculum) and that we need a new model for learning
- Need to teach UML
Habermann also suggested that we are doing a disservice if we do not incorporate training about UML and present ISO/NAP using UML.
 - Dave Danko agreed saying we should not 'fear the UML'
 - Jaci Mize (NOAA NCDDC) suggested that there were different audiences to support. Those that were actively developing metadata applications and resources and needed to work directly with the ISO 19115 UML and those that simply needed an effective data document method and want a simple, consistent transition from CSDGM.
- Copyright issues associated with the use of the ISO UML diagrams
Mize asked what copyright issues might be raised by using ISO UML diagrams.
 - Habermann felt that the 'Fair Use Doctrine' provided for free use of the diagrams and that use of a copyright symbol would suffice.

14

FGDC Metadata Working Group

ISO/NAP Implementation Guidance

<http://www.fgdl.gov/geoportal/arcgis/arcgis/rest/services/arcgis/arcgis/rest/info?only=metadata>

Which Metadata Standard Should I Use?

The current array of geospatial metadata standards and variations of standards has left the community somewhat bewildered as to which geospatial metadata standard/variant they should be utilizing. At this time the FGDC recommends that:

organizations currently using the CSDGM metadata standard remain to do so unless there is some compelling reason to change standards.

March 12, 2011 slide 14 of 21

15

FGDC Metadata Working Group

ISO/NAP Implementation Guidance

The FGDC makes this recommendation based upon:

- Continued evolution of ISO-related geospatial metadata standards:
 - NAP revisions to expand entity/attribute descriptions based upon ISO 19110: Feature Catalog
 - Significant changes to ISO 19115 as part of the current Five Year Review
 - Changes to ISO 19139 resulting from the ISO 19115 Five Year Review.
- Lack of resources to adequately support ISO-related geospatial metadata implementation:
 - Guidance and reference documents
 - Training materials
 - Data management and distribution portals
 - Community expertise

March 12, 2011 slide 15 of 21

16

FGDC Metadata Working Group

ISO/NAP Implementation Guidance

Reasons why an organization may want to implement ISO-related geospatial metadata standards:

- Heavy emphasis on the documentation of remotely sensed or gridded imagery that is strongly supported by ISO 19115-2
- Active participation in the development of data with another country/region that actively utilized ISO 19115
- Initiation of a data management program that requires the creation of metadata for data resources not previously documented.

March 12, 2011 slide 16 of 21

17

FGDC Metadata Working Group

ISO/NAP Implementation Guidance

Food for thought....

Does this guidance need to change?

If so, what changes are needed?

- Do we need to promote change from CSDGM?
- When, based on what milestones?
- ISO and/or NAP?
- What can we/FGDC can do to encourage the transition?
- What are possible barriers to be addressed and incentives to be cited?

March 12, 2011 slide 17 of 21

14: ISO/NAP Implementation Guidance
 Lynda Wayne (GeoMaxim) presented the current FGDC to ISO/NAP implementation guidance to 'stay the course with CSDGM' unless some compelling reason to change.

15: ISO/NAP Implementation Guidance
 Basis for the recommendation

- Standards are still in a state of flux
- Lack of resources (guidance, training, applications)

16: ISO/NAP Implementation Guidance
 Compelling reasons to change

- Need to utilize expanded elements for documentation of remotely sensed data
- International data collaboration
- In the initiation stage of metadata implementation

17: ISO/NAP Implementation Guidance
 Food for thought: Does this guidance need to change?

Discussion:

- Do we promote a change from CSDGM?
 - Habermann suggested we should have changed much earlier and that FGDC has lost their leadership role with regard to metadata implementation. NASA and NOAA are shifting. We can't cling to old ways, even NASA's Global Change Data Directory is changing from their Directory Interchange Format (DIF) documentation standard.
 - Peter Schweitzer (USGS – Geology) stated that FGDC did abandon its leadership role on standards development when it joined the ISO 19115 effort but that shift in leadership was appropriate.
- When, based on what milestones?
 - Mize suggested we should make the change once we have portals to support ISO metadata, noting that Fed agencies are required to publish to GOS and GOS does not support ISO metadata format.
 - Habermann stated that the portals are changing capabilities rapidly and that you can always convert your ISO to CSDGM for publication.

- Danko reminded that ISO and NAP require new information that should be collected right now.
- Do we make the change to ISO or NAP?
 - Mize suggested that we adopt NAP once it is aligned with ISO 19115-1 and perhaps the best approach is to profile ISO 19115-1 as NAP by simply adding the NAP best practices to ISO 19115-1 content.
 - Habermann stated that standards will always been on shifting ground and we need to learn to better roll with change. He added that the current NAP dropped too much info including:
 - ability to extend the standard
 - usage information to document new applications of the data
 - Schweitzer stated that there should not be any transition until we can successfully transform a CSDGM record to ISO and back again successfully, too much info is lost using the current transforms. In addition he would like to see better presentations (stylesheets) of ISO metadata.
 - Anna Milan (NOAA – NGDC) stated she was working on the stylesheets and has some options that we can review.

Given the time constraints of the telecon, participants were asked to give additional thought to the topic and the remaining questions:

- What can we/FGDC do to encourage transition?
- What are the barriers & incentives?
- Need a new model for learning

GeoMaxim suggested that a dedicated telecon be set up to further discuss the topic. Several participants agreed and suggested that the MWG should hold topic-related calls outside of the quarterly calls.

18

FGDC
Metadata Working Group

News for the Field

NOAA / Esri Geoportal Adaptations

- NOAA:
 - National Ocean Service (NOS)
 - National Coastal Data Development Center (NCDDC)
 - National Oceanographic Data Center (NODC)
 - Collaborated with Esri to ensure Geoportal support for:
 - CSDGM
 - CSDGM Biological, Shoreline Profiles and Remote Sensing Extensions
 - ISO 19139
- Esri will make the revised code and documentation available to the public via the Source Forge

March 12, 2011 slide 18 of 21

- 18: News from the Field:**
NOAA Esri Geoportal Adaptations
 Kathy Martinolich (NCDDC) presented information about NOAA efforts to improve Geoportal support of CSDGM and ISO metadata
- Include CSDGM profiles and extensions
 - Use CSDGM and ISO published schemas vs. Esri adaptations
 - Make the source code for the adaptations publicly available

19

FGDC
Metadata Working Group

News for the Field

National Park Service Arc 10.1+ Assessment

- NPS Metadata Tools and Editor (a.k.a. MTE):
 - Develop pros/cons of existing metadata tools
 - Determine needs for a new NPS metadata tool
 - Provide recommendations/options to NPS GIS Council
- Outcomes:
 - Arc10 metadata SOPs
 - Metadata Survey
 - Recommendations to ESRI
 - Collaboration with other DOI agencies on Arc 10 Tools?

March 12, 2011 slide 19 of 21

- 19: News from the Field:**
NPS Arc 10.1+ Assessment
 Chris Dietrich (NPS) presented information about efforts to assess Arc 10.1+ and determine the need and potential to develop NPS metadata editor add on.

20

FGDC
Metadata Working Group

News for the Field

Voyager: GIS Data Discovery

- Linda Zellmer forwarded the following link from the another list and a review from a librarian in Toronto:

Voyager GIS is a catalogue builder and search tool for your geospatial data. It can be installed on a server, on an intranet, or just on your desktop. It makes managing your GIS data an amazingly fun task. No need to write any metadata if you do not want to. Of course if you do, the catalogue is even better, but voyager takes what is available and makes a visual index of all holdings in the paths you specify for it to catalogue. It even creates a basemap and allows you to search by location...Really fun tool.

<http://voyagergis.com/>
- Give it a spin and reply to the email list with your experience and insights

March 12, 2011 slide 20 of 21

- 20: News from the Field:**
Voyage: GIS Data Discovery
 Linda Zellmer (UW - Madison) provided a link to the Voyager: geospatial data catalog and search utility that does not require metadata but does benefit from it. Participants were asked to check out the free download and report back to the group with their experiences.

The meeting was adjourned at 3:05 PM.